

11/09/11  
11064 U.S. PTO

Please type a plus sign (+) inside the box



01-08-02

PTO/SB/05 (11-00)

Approved for use through 10/31/2002. OMB 0651-0032  
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

# UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 C.F.R. 1.53(b))

Attorney Docket No. 9858-000039

First Inventor Christopher J. Conway et al.

Title O-RING REMOVAL SLOT

Express Mail Label No. EV 041976121 US

11/09/11  
110/039943  
A

## APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

- Fee Transmittal Form (e.g., PTO/SB/17)  
*(Submit an original and a duplicate for fee processing)*
- Applicant claims small entity status.  
See 37 CFR 1.27.
- Specification [Total Pages 17]
  - Descriptive title of the Invention
  - Cross References to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to sequence listing, a table, or a computer program listing appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (*if filed*)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
- Drawing(s) (35 U.S.C.113) [Total Sheets 4 ] [Total Pages 3 ]
- Oath or Declaration
  - a.  Newly executed (original or copy)
  - b.  Copy from a prior application (37 CFR 1.63 (d))  
*(for a continuation/divisional with Box 18 completed)*
  - i.  **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
- Application Data Sheet. See 37 CFR 1.76

ADDRESS TO: Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 20231

7.  CD-ROM or CD-R in duplicate, large table or Computer Program (*Appendix*)
8. Nucleotide and/or Amino Acid Sequence Submission (*if applicable, all necessary*)
  - a.  Computer Readable Form (CRF)
  - b. Specification Sequence Listing on:
    - i.  CD-ROM or CD-R (2 copies); or
    - ii.  paper
  - c.  Statements verifying identity of above copies

## ACCOMPANYING APPLICATIONS PARTS

9.  Assignment Papers (cover sheet & document(s))
10.  37 C.F.R. §3.73(b) Statement  Power of Attorney (*when there is an assignee*)
11.  English Translation Document (*if applicable*)
12.  Information Disclosure Statement (IDS)/PTO-1449  Copies of IDS Citations
13.  Preliminary Amendment
14.  Return Receipt Postcard (MPEP 503)  
*(Should be specifically itemized)*
15.  Certified Copy of Priority Document(s) (*if foreign priority is claimed*)
16.  Request and Certification under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
17.  Other: Check

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

 Continuation     Divisional     Continuation-in-part (CIP)

of prior application No: \_\_\_\_\_ / \_\_\_\_\_

Prior application information: Examiner \_\_\_\_\_

Group / Art Unit: \_\_\_\_\_

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

## 17. CORRESPONDENCE ADDRESS

Customer Number or Bar Code Label  (Insert Customer No. or Attach bar code label here) or  Correspondence address below

Name	Kelly K. Burris, Esq. Harness, Dickey & Pierce, P.L.C.				
Address	7700 Bonhomme Avenue Suite 400				
City	Saint Louis	State	Missouri	Zip Code	63105
Country	U.S.A.	Telephone	(314) 726-7500		Fax (314) 726-7501

Name (Print/Type)	Kelly K. Burris	Registration No. (Attorney/Agent)	46,361
Signature		Date	November 9, 2001

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

# FEE TRANSMITTAL for FY 2001

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT (\$ 629.00)

Complete if Known	
Application Number	
Filing Date	
First Named Inventor	Christopher J. Conway et al.
Examiner Name	
Group / Art Unit	

Attorney Docket No. 9858-000039

METHOD OF PAYMENT (check one)				FEE CALCULATION (continued)																																																																																																																																																																																																																																																																						
<p>1. <input type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any over payments to:</p> <p>Deposit Account Number <input type="text" value="08-0750"/></p> <p>Deposit Account Name <input type="text" value="Harness, Dickey &amp; Pierce"/></p> <p><input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17</p> <p><input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27</p>				<p>3. ADDITIONAL FEES</p> <table border="1"> <thead> <tr> <th>Fee Code</th> <th>Large Entity Fee (\$)</th> <th>Small Entity Fee Code</th> <th>Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>105</td><td>130</td><td>205</td><td>65</td><td>Surcharge - late filing fee or oath</td><td></td></tr> <tr><td>127</td><td>50</td><td>227</td><td>25</td><td>Surcharge - late provisional filing fee or cover sheet</td><td></td></tr> <tr><td>139</td><td>130</td><td>139</td><td>130</td><td>Non-English specification</td><td></td></tr> <tr><td>147</td><td>2,520</td><td>147</td><td>2,520</td><td>For filing a request for reexamination</td><td></td></tr> <tr><td>112</td><td>920*</td><td>112</td><td>920*</td><td>Requesting publication of SIR prior to Examiner action</td><td></td></tr> <tr><td>113</td><td>1,840*</td><td>113</td><td>1,840*</td><td>Requesting publication of SIR after Examiner action</td><td></td></tr> <tr><td>115</td><td>110</td><td>215</td><td>55</td><td>Extension for reply within first month</td><td></td></tr> <tr><td>116</td><td>400</td><td>216</td><td>200</td><td>Extension for reply within second month</td><td></td></tr> <tr><td>117</td><td>920</td><td>217</td><td>460</td><td>Extension for reply within third month</td><td></td></tr> <tr><td>118</td><td>1,440</td><td>218</td><td>720</td><td>Extension for reply within fourth month</td><td></td></tr> <tr><td>128</td><td>1,960</td><td>228</td><td>980</td><td>Extension for reply within fifth month</td><td></td></tr> <tr><td>119</td><td>320</td><td>219</td><td>160</td><td>Notice of Appeal</td><td></td></tr> <tr><td>120</td><td>320</td><td>220</td><td>160</td><td>Filing a brief in support of an appeal</td><td></td></tr> <tr><td>121</td><td>280</td><td>221</td><td>140</td><td>Request for oral hearing</td><td></td></tr> <tr><td>138</td><td>1,510</td><td>138</td><td>1,510</td><td>Petition to institute a public use proceeding</td><td></td></tr> <tr><td>140</td><td>110</td><td>240</td><td>55</td><td>Petition to revive – unavoidable</td><td></td></tr> <tr><td>141</td><td>1,280</td><td>241</td><td>640</td><td>Petition to revive – unintentional</td><td></td></tr> <tr><td>142</td><td>1,280</td><td>242</td><td>640</td><td>Utility issue fee (or reissue)</td><td></td></tr> <tr><td>143</td><td>460</td><td>243</td><td>230</td><td>Design issue fee</td><td></td></tr> <tr><td>144</td><td>620</td><td>244</td><td>310</td><td>Plant issue fee</td><td></td></tr> <tr><td>122</td><td>130</td><td>122</td><td>130</td><td>Petitions to the Commissioner</td><td></td></tr> <tr><td>123</td><td>50</td><td>123</td><td>50</td><td>Petitions related to provisional applications</td><td></td></tr> <tr><td>126</td><td>180</td><td>126</td><td>180</td><td>Submission of Information Disclosure Stmt</td><td></td></tr> <tr><td>581</td><td>40</td><td>581</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td><td>40</td></tr> <tr><td>146</td><td>740</td><td>246</td><td>370</td><td>Filing a submission after final rejection (37 CFR § 1.129(a))</td><td></td></tr> <tr><td>149</td><td>740</td><td>249</td><td>370</td><td>For each additional invention to be examined (37 CFR § 1.129(b))</td><td></td></tr> <tr><td>179</td><td>740</td><td>279</td><td>370</td><td>Request for Continued Examination (RCE)</td><td></td></tr> <tr><td>169</td><td>900</td><td>169</td><td>900</td><td>Request for expedited examination of a design application</td><td></td></tr> <tr> <td colspan="4">SUBTOTAL (1) <input type="text" value="(\$ 370.00)"/></td> <td colspan="4">Other fee (specify) _____</td> </tr> <tr> <td colspan="4">2. EXTRA CLAIM FEES</td> <td colspan="4"> <table border="1"> <thead> <tr> <th>Total Claims</th> <th>-20**</th> <th>= 15</th> <th>X 9</th> <th>= 135</th> </tr> </thead> <tbody> <tr> <td>Independent Claims</td> <td>5</td> <td>-3**</td> <td>= 2</td> <td>X 42</td> <td>= 84</td> </tr> <tr> <td>Multiple Dependent</td> <td></td> <td></td> <td></td> <td>X 0</td> <td>= 0</td> </tr> </tbody> </table> </td> </tr> <tr> <td colspan="4"> <table border="1"> <thead> <tr> <th>Large Entity Fee Code (\$)</th> <th>Small Entity Fee Code (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>103</td><td>18</td><td>203</td><td>9</td></tr> <tr><td>102</td><td>84</td><td>202</td><td>42</td></tr> <tr><td>104</td><td>280</td><td>204</td><td>140</td></tr> <tr><td>109</td><td>84</td><td>209</td><td>42</td></tr> <tr><td>110</td><td>18</td><td>210</td><td>9</td></tr> </tbody> </table> </td> <td colspan="4"> <table border="1"> <thead> <tr> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>Claims in excess of 20</td><td></td></tr> <tr><td>Independent claims in excess of 3</td><td></td></tr> <tr><td>Multiple dependent claim, if not paid</td><td></td></tr> <tr><td>** Reissue independent claims over original patent</td><td></td></tr> <tr><td>** Reissue claims in excess of 20 and over original patent</td><td></td></tr> </tbody> </table> </td> </tr> <tr> <td colspan="4">SUBTOTAL (2) <input type="text" value="(\$ 219.00)"/></td> <td colspan="4">*Reduced by Basic Filing Fee Paid SUBTOTAL (3) <input type="text" value="(\$ 40.00)"/></td> </tr> </tbody> </table>				Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Fee (\$)	Fee Description	Fee Paid	105	130	205	65	Surcharge - late filing fee or oath		127	50	227	25	Surcharge - late provisional filing fee or cover sheet		139	130	139	130	Non-English specification		147	2,520	147	2,520	For filing a request for reexamination		112	920*	112	920*	Requesting publication of SIR prior to Examiner action		113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action		115	110	215	55	Extension for reply within first month		116	400	216	200	Extension for reply within second month		117	920	217	460	Extension for reply within third month		118	1,440	218	720	Extension for reply within fourth month		128	1,960	228	980	Extension for reply within fifth month		119	320	219	160	Notice of Appeal		120	320	220	160	Filing a brief in support of an appeal		121	280	221	140	Request for oral hearing		138	1,510	138	1,510	Petition to institute a public use proceeding		140	110	240	55	Petition to revive – unavoidable		141	1,280	241	640	Petition to revive – unintentional		142	1,280	242	640	Utility issue fee (or reissue)		143	460	243	230	Design issue fee		144	620	244	310	Plant issue fee		122	130	122	130	Petitions to the Commissioner		123	50	123	50	Petitions related to provisional applications		126	180	126	180	Submission of Information Disclosure Stmt		581	40	581	40	Recording each patent assignment per property (times number of properties)	40	146	740	246	370	Filing a submission after final rejection (37 CFR § 1.129(a))		149	740	249	370	For each additional invention to be examined (37 CFR § 1.129(b))		179	740	279	370	Request for Continued Examination (RCE)		169	900	169	900	Request for expedited examination of a design application		SUBTOTAL (1) <input type="text" value="(\$ 370.00)"/>				Other fee (specify) _____				2. EXTRA CLAIM FEES				<table border="1"> <thead> <tr> <th>Total Claims</th> <th>-20**</th> <th>= 15</th> <th>X 9</th> <th>= 135</th> </tr> </thead> <tbody> <tr> <td>Independent Claims</td> <td>5</td> <td>-3**</td> <td>= 2</td> <td>X 42</td> <td>= 84</td> </tr> <tr> <td>Multiple Dependent</td> <td></td> <td></td> <td></td> <td>X 0</td> <td>= 0</td> </tr> </tbody> </table>				Total Claims	-20**	= 15	X 9	= 135	Independent Claims	5	-3**	= 2	X 42	= 84	Multiple Dependent				X 0	= 0	<table border="1"> <thead> <tr> <th>Large Entity Fee Code (\$)</th> <th>Small Entity Fee Code (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>103</td><td>18</td><td>203</td><td>9</td></tr> <tr><td>102</td><td>84</td><td>202</td><td>42</td></tr> <tr><td>104</td><td>280</td><td>204</td><td>140</td></tr> <tr><td>109</td><td>84</td><td>209</td><td>42</td></tr> <tr><td>110</td><td>18</td><td>210</td><td>9</td></tr> </tbody> </table>				Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid	103	18	203	9	102	84	202	42	104	280	204	140	109	84	209	42	110	18	210	9	<table border="1"> <thead> <tr> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>Claims in excess of 20</td><td></td></tr> <tr><td>Independent claims in excess of 3</td><td></td></tr> <tr><td>Multiple dependent claim, if not paid</td><td></td></tr> <tr><td>** Reissue independent claims over original patent</td><td></td></tr> <tr><td>** Reissue claims in excess of 20 and over original patent</td><td></td></tr> </tbody> </table>				Fee Description	Fee Paid	Claims in excess of 20		Independent claims in excess of 3		Multiple dependent claim, if not paid		** Reissue independent claims over original patent		** Reissue claims in excess of 20 and over original patent		SUBTOTAL (2) <input type="text" value="(\$ 219.00)"/>				*Reduced by Basic Filing Fee Paid SUBTOTAL (3) <input type="text" value="(\$ 40.00)"/>			
Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Fee (\$)	Fee Description	Fee Paid																																																																																																																																																																																																																																																																					
105	130	205	65	Surcharge - late filing fee or oath																																																																																																																																																																																																																																																																						
127	50	227	25	Surcharge - late provisional filing fee or cover sheet																																																																																																																																																																																																																																																																						
139	130	139	130	Non-English specification																																																																																																																																																																																																																																																																						
147	2,520	147	2,520	For filing a request for reexamination																																																																																																																																																																																																																																																																						
112	920*	112	920*	Requesting publication of SIR prior to Examiner action																																																																																																																																																																																																																																																																						
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action																																																																																																																																																																																																																																																																						
115	110	215	55	Extension for reply within first month																																																																																																																																																																																																																																																																						
116	400	216	200	Extension for reply within second month																																																																																																																																																																																																																																																																						
117	920	217	460	Extension for reply within third month																																																																																																																																																																																																																																																																						
118	1,440	218	720	Extension for reply within fourth month																																																																																																																																																																																																																																																																						
128	1,960	228	980	Extension for reply within fifth month																																																																																																																																																																																																																																																																						
119	320	219	160	Notice of Appeal																																																																																																																																																																																																																																																																						
120	320	220	160	Filing a brief in support of an appeal																																																																																																																																																																																																																																																																						
121	280	221	140	Request for oral hearing																																																																																																																																																																																																																																																																						
138	1,510	138	1,510	Petition to institute a public use proceeding																																																																																																																																																																																																																																																																						
140	110	240	55	Petition to revive – unavoidable																																																																																																																																																																																																																																																																						
141	1,280	241	640	Petition to revive – unintentional																																																																																																																																																																																																																																																																						
142	1,280	242	640	Utility issue fee (or reissue)																																																																																																																																																																																																																																																																						
143	460	243	230	Design issue fee																																																																																																																																																																																																																																																																						
144	620	244	310	Plant issue fee																																																																																																																																																																																																																																																																						
122	130	122	130	Petitions to the Commissioner																																																																																																																																																																																																																																																																						
123	50	123	50	Petitions related to provisional applications																																																																																																																																																																																																																																																																						
126	180	126	180	Submission of Information Disclosure Stmt																																																																																																																																																																																																																																																																						
581	40	581	40	Recording each patent assignment per property (times number of properties)	40																																																																																																																																																																																																																																																																					
146	740	246	370	Filing a submission after final rejection (37 CFR § 1.129(a))																																																																																																																																																																																																																																																																						
149	740	249	370	For each additional invention to be examined (37 CFR § 1.129(b))																																																																																																																																																																																																																																																																						
179	740	279	370	Request for Continued Examination (RCE)																																																																																																																																																																																																																																																																						
169	900	169	900	Request for expedited examination of a design application																																																																																																																																																																																																																																																																						
SUBTOTAL (1) <input type="text" value="(\$ 370.00)"/>				Other fee (specify) _____																																																																																																																																																																																																																																																																						
2. EXTRA CLAIM FEES				<table border="1"> <thead> <tr> <th>Total Claims</th> <th>-20**</th> <th>= 15</th> <th>X 9</th> <th>= 135</th> </tr> </thead> <tbody> <tr> <td>Independent Claims</td> <td>5</td> <td>-3**</td> <td>= 2</td> <td>X 42</td> <td>= 84</td> </tr> <tr> <td>Multiple Dependent</td> <td></td> <td></td> <td></td> <td>X 0</td> <td>= 0</td> </tr> </tbody> </table>				Total Claims	-20**	= 15	X 9	= 135	Independent Claims	5	-3**	= 2	X 42	= 84	Multiple Dependent				X 0	= 0																																																																																																																																																																																																																																																		
Total Claims	-20**	= 15	X 9	= 135																																																																																																																																																																																																																																																																						
Independent Claims	5	-3**	= 2	X 42	= 84																																																																																																																																																																																																																																																																					
Multiple Dependent				X 0	= 0																																																																																																																																																																																																																																																																					
<table border="1"> <thead> <tr> <th>Large Entity Fee Code (\$)</th> <th>Small Entity Fee Code (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>103</td><td>18</td><td>203</td><td>9</td></tr> <tr><td>102</td><td>84</td><td>202</td><td>42</td></tr> <tr><td>104</td><td>280</td><td>204</td><td>140</td></tr> <tr><td>109</td><td>84</td><td>209</td><td>42</td></tr> <tr><td>110</td><td>18</td><td>210</td><td>9</td></tr> </tbody> </table>				Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid	103	18	203	9	102	84	202	42	104	280	204	140	109	84	209	42	110	18	210	9	<table border="1"> <thead> <tr> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>Claims in excess of 20</td><td></td></tr> <tr><td>Independent claims in excess of 3</td><td></td></tr> <tr><td>Multiple dependent claim, if not paid</td><td></td></tr> <tr><td>** Reissue independent claims over original patent</td><td></td></tr> <tr><td>** Reissue claims in excess of 20 and over original patent</td><td></td></tr> </tbody> </table>				Fee Description	Fee Paid	Claims in excess of 20		Independent claims in excess of 3		Multiple dependent claim, if not paid		** Reissue independent claims over original patent		** Reissue claims in excess of 20 and over original patent																																																																																																																																																																																																																																
Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid																																																																																																																																																																																																																																																																							
103	18	203	9																																																																																																																																																																																																																																																																							
102	84	202	42																																																																																																																																																																																																																																																																							
104	280	204	140																																																																																																																																																																																																																																																																							
109	84	209	42																																																																																																																																																																																																																																																																							
110	18	210	9																																																																																																																																																																																																																																																																							
Fee Description	Fee Paid																																																																																																																																																																																																																																																																									
Claims in excess of 20																																																																																																																																																																																																																																																																										
Independent claims in excess of 3																																																																																																																																																																																																																																																																										
Multiple dependent claim, if not paid																																																																																																																																																																																																																																																																										
** Reissue independent claims over original patent																																																																																																																																																																																																																																																																										
** Reissue claims in excess of 20 and over original patent																																																																																																																																																																																																																																																																										
SUBTOTAL (2) <input type="text" value="(\$ 219.00)"/>				*Reduced by Basic Filing Fee Paid SUBTOTAL (3) <input type="text" value="(\$ 40.00)"/>																																																																																																																																																																																																																																																																						

\*\*or number previously paid, if greater; For Reissues, see above

SUBMITTED BY						Complete (if applicable)
Name (Print/Type)	Kelly K. Burris	Registration No. Attorney/Agent)	46,361	Telephone	(314) 726-7500	
Signature				Date	November 9, 2001	

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.